

**Record 23: JP6287363A****(ENG) POLYETHYLENE RESIN COMPOSITION****Assignee:** TONEN SEKIYUKAGAKU KK

[ no drawing available]

**Inventor(s):** MIYAOKA SATOSHI ; ICHIYANAGI KENJI**Application No:** JP 10367793 A**Filing Date:** 19930407**Issue/Publication Date:** 19941011

**Abstract:** (ENG) <sec>PURPOSE: To obtain the title composition having low melt viscosity and improved in melt moldability, environmental stress cracking resistance, rigidity and mechanical strengths by mixing two specified high-density polyethylenes with each other. CONSTITUTION: A high-density polyethylene (A) having a density of 0.940-0.950g/cm<sup>3</sup>, a melt index (MI<sub>1</sub>) of 0.01-0.08g/10min and an environmental stress cracking resistance of 1000hr or longer is mixed with a high-density polyethylene (B) having a density of 0.955-0.965g/cm<sup>3</sup> and a melt index (MI<sub>2</sub>) of 2-40g/10min in such amounts that the melt index (MI) defined by the formula:  $(MI) = (MI_1 - 0.04) \times \phi_1 + (MI_2 - 0.04) \times \phi_2$  (wherein  $\phi_1$  and  $\phi_2$  are the weight fractions of components A and B, respectively,  $\phi_1 + \phi_2 = 1.0$ ; and  $\phi_1 \geq 0.50$ ) may fall within the range: 0.20 ≤ (MI) ≤ 0.40. </sec>

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